

STAIRPARTS

Whether building a new staircase or replacing the old balustrading, Wickes Stairparts will enable you to complete the work quickly and easily. The finished staircase will bring style and character to your hall and add value to your home. Stairparts are available in top quality North American Hemlock,

Chrome, Brushed Nickel and Oak. The range of products includes spindles, handrails, baserails, newel posts and a comprehensive range of fixing components. The balustrading can be constructed without the need for specialist joinery skills.



BEFORE YOU START

The following instructions are designed to help you meet safety regulations laid down under current Building Regulations.

The most important rules about safety state that the height of the handrail on the stairs and landing should not be less than 900mm (840mm in Scotland), and that a 100mm ball should not be able to pass between spindles at any point.

STAIR TERMINOLOGY

| | |
|---------------|---|
| Rake | The slope of the staircase. |
| Tread | The top or horizontal surface of a step. |
| Riser | The board forming the vertical face of a step. |
| String | The wide timber on each side of the treads and risers. One string is generally fixed to the wall and the other 'open' side supports the base rail and spindles. |

Pitch Line If a straight edge is laid on the treads with the base touching the tread nosings the line of the bottom edge is called the pitch line. Fig.1.

TOOLS REQUIRED

You will already have most of the tools needed to fit new stairparts. The following are the most useful:-

Electric Drill - for pilot holes for fixings and other jobs.

Panel saw - for cutting base and handrails.

Tenon saw - for cutting spindles and fillets.

Pin hammer - for panel pin fixings.

Adjustable Bevel - this is a simple device for measuring and marking angles.

One of the few tools you may not have, but worth buying.

A selection of drills - HSS and flat bits are needed for the fasteners.

A selection of spanners and sockets will be needed for fixing the fasteners. (See individual fastener packs).

ACCESSORIES

250ml Wood adhesive (240-035)

Panel Pins

Glasspaper (fine grade)

KEEP INFORMED

- Look for other Good Idea Leaflets that could help you with your current project.
- Check that your Good Idea Leaflets are kept up to date. Leaflets are regularly changed to reflect product changes so keep an eye on issue dates.
- If you would like to be put on our mailing list for the Wickes catalogue, call:

0845 274 1000

- Visit our website
wickes.co.uk

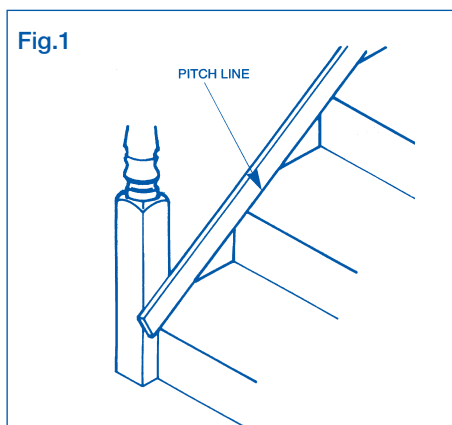
PROJECT RANGE

| Product Code | Product Description |
|--------------------|---|
| 32mm RANGE | |
| 128-400 | Contemporary Spindle 32 x 900mm |
| 120-403 | Spindle Hemlock 32 x 900mm |
| 129-403 | Spindle Primed 32 x 900mm |
| 165-445 | Fluted Hemlock Spindle |
| 120-401 | Handrail 32mm Hemlock 2.4m |
| 120-404 | Baseraill 32mm Hemlock 2.4m |
| 120-402 | Handrail 32mm Hemlock 3.6m |
| 120-405 | Baseraill 32mm Hemlock 3.6m |
| 165-500 | Spindle Oak Chamfered 32 x 900mm Pk1 |
| 165-507 | Spindle Oak Chamfered 32 x 900mm Pk10 |
| 165-499 | Spindle Oak Traditional 32 x 900mm Pk1 |
| 165-506 | Spindle Oak Traditional 32 x 900mm Pk10 |
| 41mm RANGE | |
| 128-401 | Contemporary Spindle 41 x 900mm |
| 120-168 | Colonial Hemlock Spindle 41 x 900mm |
| 120-178 | Spindle Hemlock 41 x 900mm |
| 120-182 | Handrail 41mm Hemlock 2.4m |
| 120-183 | Baseraill 41mm Hemlock 2.4m |
| 120-180 | Handrail 41mm Hemlock 3.6m |
| 120-179 | Baseraill 41mm Hemlock 3.6m |
| ACCESSORIES | |
| 128-402 | Contemporary Newel Post 1.22m |
| 128-403 | Contemporary Newel Post 1.48m |
| 128-404 | Half Contemporary Newel Post 1.22m |
| 128-405 | Contemporary Newel Post Cap |
| 120-406 | Newel Post & Ball & Base 1.22m |
| 120-407 | Newel Post & Ball & Base 1.48m |
| 120-408 | Half Newel Post & Ball & Base 1.22m |
| 120-360 | Newel Fastening System |
| 120-363 | Newel Post & Handrail Fastener |
| 120-364 | Horizontal Rail Fastener |
| 165-476 | Axxy's Hemlock Round Handrail 2.4m |
| 165-477 | Axxy's Hemlock Round Handrail 3.6m |
| 190-582 | Handrail 40mm Chrome 1.8m |
| 190-581 | Handrail 40mm Chrome 2.4m |
| 190-580 | Handrail 40mm Chrome 3.6m |
| 190-589 | Straight Post Bracket Chrome Finish |
| 190-587 | Shallow End Cap Chrome Finish |
| 190-588 | Connecting Wall Brackets Chrome Finish |
| 190-590 | Covered Socket Handrail Chrome Finish |
| 190-585 | 90° Chrome Finish Elbow |
| 190-584 | 135° Chrome Finish Elbow |
| 190-583 | Wall Bracket Chrome Finish |
| 160-232 | Handrail 40mm Brushed Nickel 1.8m |
| 160-229 | Handrail 40mm Brushed Nickel 2.4m |
| 160-228 | Handrail 40mm Brushed Nickel 3.6m |
| 160-239 | Straight Post Bracket Brushed Nickel |
| 160-237 | Shallow End Cap Brushed Nickel |
| 160-240 | Covered Socket Handrail Brushed Nickel |
| 160-238 | Connecting Wall Bracket Brushed Nickel |
| 160-235 | 90° Brushed Nickel Elbow |
| 160-234 | 135° Brushed Nickel Elbow |
| 160-233 | Wall Bracket Brushed Nickel |
| 165-473 | Oak Handrail 2.4m |
| 165-474 | Oak Handrail 3.6m |
| 165-504 | Oak Baseraill 32 x 2.4m |
| 165-505 | Oak Baseraill 32 x 3.6m |
| 165-501 | Oak Contemporary Newel Post 1.5m |
| 165-502 | Oak Traditional Newel Post 1.5m |
| 165-503 | Oak Contemporary Newel Cap |

SPINDLES

To calculate how many you need on the rake, count the number of treads between newels. Allow two spindles per tread and one per tread where there is a cut-out for a newel post.

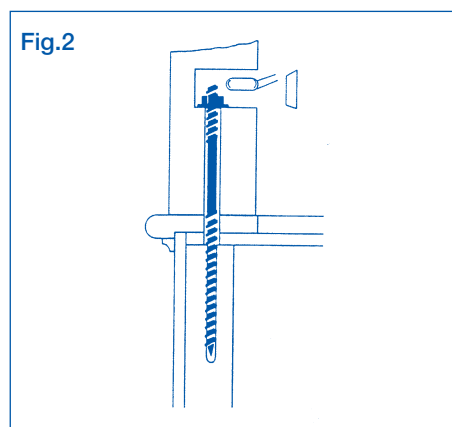
To calculate the number of landing spindles required, measure the horizontal distance in mm then divide by 112. For example, if the horizontal distance is 896mm, divide



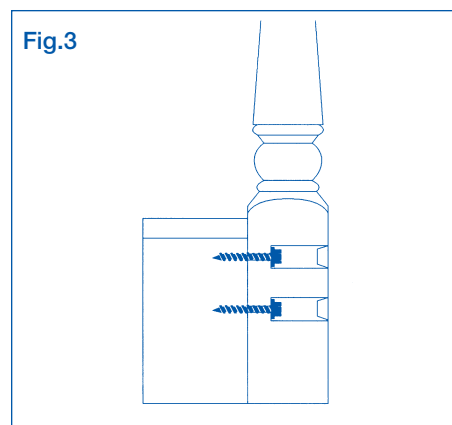
by 112 which gives a figure of 8. This is the number of spindles needed. Round part numbers upwards.

FIXING NEWEL POSTS

When an existing newel post is removed note how it has been fixed. New newel posts must be located in the same position and can be fitted using either the Newel Fastening kit or the Newel Post and Handrail Fastener depending upon circumstances. Fig.2 and 3 show how



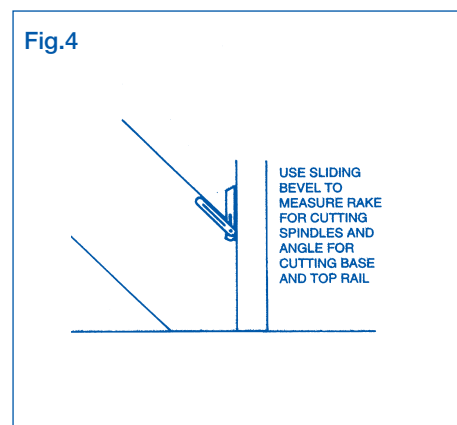
these fasteners are used with much more detailed fixing instructions being provided on the packs. Both types of fastener can be used together for added strength. It is essential that newel posts are totally rigid when fixed and fixings must always be



made into substantial timbers. Check that the newel post is vertical.

BASERAIL

The next stage is to fit the Baseraill. This must be cut to the angle of the stairs. To find the angle of the stairs either make a template using cardboard or use an

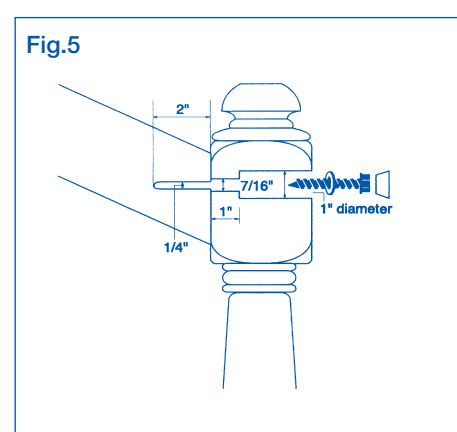


adjustable bevel. Fig.4.

Measure and cut both ends of the baseraill. Take time to ensure a clean and correct cut. Drill and countersink holes, then screw and glue the baseraill to the string. Use at least 1 1/4" screws at maximum 300mm centres.

HANDRAIL

The handrail should be cut to the same angle as the baseraill. To connect the handrail to the newel posts on the staircase use the Newel Post and Handrail Fasteners



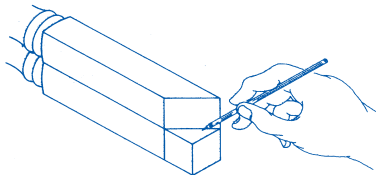
as shown in Fig.5. Fuller instructions will be found on the back of the fittings pack. It is essential to position the handrail at the minimum height specified at the start of this leaflet. At the bottom of the rail ensure that the fixing is made as in Fig.5, into solid handrail timber. At the top end of the of the handrail lower the position of the fixing in relation to the newel post to again ensure that the fixing goes into solid handrail timber and does not break out of the top of the rail. The handrail and baseraill should be parallel from bottom to top.

SPINDLES & FILLETS

The spindles should now be fitted. To give the required length and angle of cut, the first spindle should be measured by standing it against the stair base and top rails and accurately marking.

The first spindle can be used as a template to mark and cut further spindles, checking that it is accurate all the way up the stairs. Fig.6.

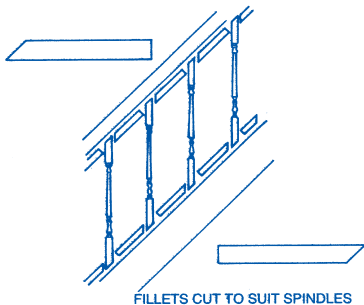
Fig.6



USE THE FIRST SPINDLE AS A TEMPLATE FOR CUTTING OTHERS

The spindles are spaced using fillets. Spindles can be equally spaced up the rake with the exception of the first and last fillet, which must be shortened to suit due to the pattern of the newel post. Having adjusted the first and last fillets as required, fit spindles into position, cross pin and glue. Also pin fillets top and bottom. Fig.7.

Fig.7



FILLETS CUT TO SUIT SPINDLES

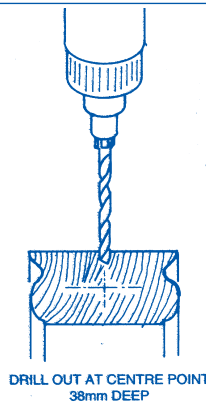
Note. Maximum horizontal distance between square faces of spindles on rake is 90mm.

LANDING BALUSTRADE

Where a landing returns on itself (i.e. 180°) it is necessary to use a quarter turn. It may be necessary or desirable to trim one leg of the quarter turn so that the landing balustrading can be taken closer to the newel post and the edge of the stairwell, thus maximising landing space. Where the landing is at right-angles to the stairs (i.e. 90°) it is not necessary to use a quarter turn because you will have a newel post in place.

To fit the quarter turn drill a 6mm hole to a depth of 38mm into the centre of the end of the quarter turn which will be secured to

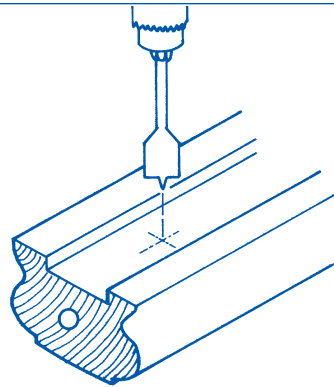
Fig.8



DRILL OUT AT CENTRE POINT
38mm DEEP

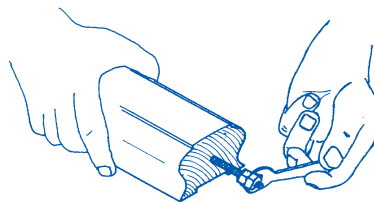
the handrail. Fig.8. Drill a 9mm hole 44mm deep into the centre of the handrail. Next, drill a 25mm access hole into the underside of the handrail with the centre of the hole 44mm from the end of the rail. Fig.9.

Fig.9



Screw the thread of the bolt into the hole in the quarter turn. Fig.10.

Fig.10



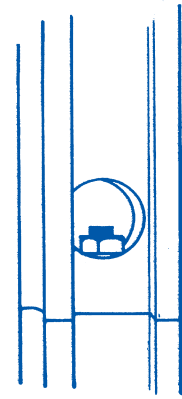
USE TWO NUTS TO CREATE A 'LOCK'
SO THAT THE BOLT CAN BE SCREWED IN

Slip the handrail onto the exposed bolt and, via the access hole in the rail, fit the nut. Fig.11. Before tightening the nut apply woodworking adhesive to the join between the rail and quarter turn. Align the parts then tighten the nut. Remove excess adhesive squeezed out of the join. Leave for several hours for the adhesive to set, then sand the join for a perfectly smooth finish.

Connect the quarter turn to the newel post with a Newel Post and Handrail Fastener as for normal rail fixings.

At the other end where the handrail meets the wall, use the half newel post. Fit to the

Fig.11

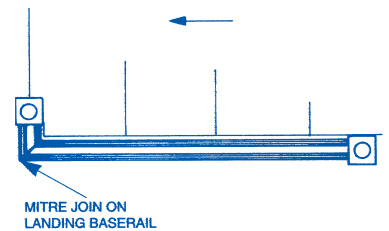


handrail in the same way as to the whole newel post and then cut the base of the newel post to the required length and screw the base to the wall.

Cut the baserail to the required length then drill, countersink, glue and screw the baserail to the floor. Use at least 1 1/2" screws. If using the horizontal turn, you will need to mitre join the baserail. Fig.12.

Once the landing handrail and baserail are in position, the landing spindles can be cut to the correct length.

Fig.12



MITRE JOIN ON
LANDING BASERAIL

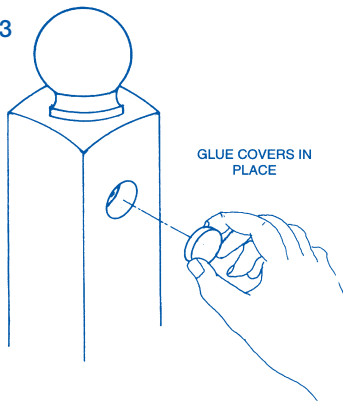
Mark off one spindle and cut to length. Check its accuracy along the landing and cut the remaining spindles to length.

NOTE: Important

Spacing of spindles is achieved with fillets. It is necessary to trim fillets to a maximum 80mm on the landing to comply with safety regulations.

Follow the same procedure as on rake to achieve equal spacing. Equalise spacing between first and last landing spindles. Once achieved, glue and pin spindles and fillets into position. Glue all cover plugs into position. Fig.13.

Fig.13



ROUND HANDRAILS

These are suitable for areas where conventional spindles and handrails cannot be used, for example in closed stairways.

Our Hemlock handrails 165476 & 165477 are dual purpose and ideal for use as both handrails and as part of the Axy's Stair Balustrading System.

The brackets are supplied separately in a choice of brass or chrome. A 2.4m rail requires three brackets and a 3.6m rail, four. End caps are also supplied in brass and chrome.

Fixing instructions are supplied with each bracket.

PROCEDURE FOR STAINING & VARNISHING STAIRPARTS

Smooth surfaces down with fine glasspaper. Wipe off all traces of dust. Treat with gloss polyurethane varnish, Quick Drying Woodstain or High Performance Woodstain in the colour of your choice.

HELPLINE

If technical assistance is required call:- 01825 713822 - Week Days day time only.



Wickes Axy's Stair Balustrading

Axy's™ is simple and quick to fit. It is suitable for use in single occupancy domestic situations. It will fit most closed string stair cases with hand rail heights of 900mm on the rake and 900mm on the landings.

Axy's™ can normally be installed using the existing staircase newel. If the existing newels are being used these must be positioned central to the stair string and in front of the riser concerned.

Adjustable Handrail Bracket Fitting Instructions

1. This job is better done by two people. After fitting the newel posts securely, fit the handrail connector onto one end of

the handrail and secure with two 45mm screws provided

2. Fix the newel plate loosely to the handrail connector using the 45mm bolt provided. Ensuring to use the two washers provided. Hold the handrail in place against the newel and mark the cut length at the other end, use another loosely assembled handrail bracket and newel plate as a gauge for the space the bracket will take up. Once the handrail has been cut fix the handrail connector as above with two 45mm screws.

3. Unassemble the newel plates.

4. To fix the adjustable bracket to the newel mark on the newel the centre of the newel plate. Drill a 10mm deep x 25mm diameter hole on the opposite face of

the newel. Then drill an 8mm hole all the way through the newel. Clean out the drill chippings, place the newel plate in place and fix with the 85mm bolt and washer provided. Make sure the newel plate is vertical then fix with two 45mm screws.

5. Offer the handrail into place and secure with 45mm bolt carefully tighten the bolt ensuring not to over tighten.

6. After full installation fit all cover buttons.

Spindle bracket fitting & assembly

1. Cut the chrome tube to the desired length, ensuring not to damage the tube, remove any metal burrs safely.

2. Insert the two tube bungs provided into each end of the tube then slide the two outer brackets onto the tube these are handed please.

3. Slide the two inner tube brackets onto the either end of the tube these must be pushed on fully to the stops, both inner tube brackets must be lined up, fix these brackets with the two 45mm screws provided.

4. Slide the outer spindle bracket over the inner bracket. The spindle is now ready to be installed.

5. Place the spindle into position locating it into the profile of the handrail and base rail. Ensuring that the spindle is vertical fix into position using the 25mm screws provided it is recommended that all the screws are pre-drilled with pilot holes.

When fixing spindles on the rake in a tight position it will be necessary to use a long screwdriver.